

Windbreak Interpretations

Farmstead windbreaks protect livestock, buildings, and yards from wind and snow. They also protect fruit trees and gardens, and they furnish habitat for wildlife. Several rows of low-growing and high-growing broadleaf and coniferous trees and shrubs provide the most protection.

Field windbreaks are narrow plantings made at right angles to the prevailing wind and at specific intervals across the field. The interval depends on the erodibility of the soil. Field windbreaks protect cropland and crops from wind, help to keep snow on the fields, increase crop yields, and provide food and cover for wildlife.

Each tree or shrub species has certain climatic and physiographic limits. Within these parameters a tree or shrub may be well or poorly suited because of soil characteristics. Each tree or shrub also has definable potentials of height growth based on the soil type and climate.

Information in this subsection, which includes windbreak suitability groups and a windbreak and environmental plantings table, can be used as a guide in planning windbreaks and screens.

This subsection includes:

- **(a) Trees and Shrubs for Windbreak and Environmental Plantings**

Windbreaks and Environmental Plantings

(Absence of an entry indicates that trees generally do not grow to the given height.)

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
50000: Adco-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
50001: Armstrong-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
50002: Keswick-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
Urban land.					
50003, 50004: Mexico-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
50005: Mexico-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
Urban land.					
50006, 50007: Vanmeter-----	Fragrant sumac-----	Washington hawthorn, eastern redbud, wahoo.	Virginia pine, persimmon, eastern redcedar, green ash.	Eastern cottonwood	---

Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
50008, 50009: Keswick-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
50010, 50011: Winnegan-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
50012: Putnam-----	Buttonbush-----	Possumhaw-----	Nannyberry, arborvitae, eastern redcedar.	Common hackberry, baldcypress, pin oak.	Eastern cottonwood.
60003, 60008: Menfro-----	Fragrant sumac-----	American plum, southern arrowwood, gray dogwood.	Washington hawthorn, eastern redbud, eastern redcedar.	Tuliptree, northern red oak, green ash, white fir.	Eastern white pine.
60009: Clinkenbeard-----	American plum, common lilac, fragrant sumac.	Washington hawthorn, gray dogwood, Amur maple.	Austrian pine, Virginia pine, common hackberry, eastern redcedar, honeylocust.	---	---
Gasconade.					
Rock outcrop.					
60010, 60011: Arisburg-----	Buttonbush-----	Possumhaw-----	Nannyberry, arborvitae, eastern redcedar.	Common hackberry, baldcypress, pin oak.	Eastern cottonwood.
60012: Bardley-----	American plum, common lilac, fragrant sumac.	Washington hawthorn, gray dogwood, Amur maple.	Austrian pine, Virginia pine, common hackberry, eastern redcedar, honeylocust.	---	---

Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
60012: Clinkenbeard-----	American plum, common lilac, fragrant sumac.	Washington hawthorn, gray dogwood, Amur maple.	Austrian pine, Virginia pine, common hackberry, eastern redcedar, honeylocust.	---	---
60019: Hatton-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
60020, 60021: Lenzburg-----	Fragrant sumac-----	Washington hawthorn, eastern redbud, wahoo.	Virginia pine, persimmon, eastern redcedar, green ash.	Eastern cottonwood	---
60022: Leonard-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
60023: Marion-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
60024: Menfro-----	Fragrant sumac-----	American plum, gray dogwood, southern arrowwood.	Washington hawthorn, eastern redbud, eastern redcedar.	White fir, green ash, northern red oak, tuliptree.	Eastern white pine.
60025: Urban land.					
Harvester-----	Fragrant sumac-----	American plum, gray dogwood, southern arrowwood.	Washington hawthorn, eastern redbud, eastern redcedar.	White fir, green ash, northern red oak, tuliptree.	Eastern white pine.
60026, 60027, 60028: Weller-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---

Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
60029: Weller-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
Urban land.					
60030, 60031, 60032: Winfield-----	Fragrant sumac-----	American plum, gray dogwood, southern arrowwood.	Washington hawthorn, eastern redbud, eastern redcedar.	White fir, green ash, northern red oak, tuliptree.	Eastern white pine.
60033, 60034: Wrengart-----	Fragrant sumac-----	American plum, gray dogwood, southern arrowwood.	Washington hawthorn, eastern redbud, eastern redcedar.	White fir, green ash, northern red oak, tuliptree.	Eastern white pine.
60035: Wrengart-----	Fragrant sumac-----	American plum, gray dogwood, southern arrowwood.	Washington hawthorn, eastern redbud, eastern redcedar.	White fir, green ash, northern red oak, tuliptree.	Eastern white pine.
Urban land.					
60036: Menfro-----	Fragrant sumac-----	American plum, southern arrowwood, gray dogwood.	Washington hawthorn, eastern redbud, eastern redcedar.	Northern red oak, green ash, tuliptree, white fir.	Eastern white pine.
60037: Wrengart-----	Fragrant sumac-----	American plum, gray dogwood, southern arrowwood.	Washington hawthorn, eastern redbud, eastern redcedar.	White fir, green ash, northern red oak, tuliptree.	Eastern white pine.
60038, 60039: Rocheport-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---
Bonnefemme-----	Fragrant sumac, ninebark.	Gray dogwood, possumhaw, Amur maple.	Eastern redcedar----	Austrian pine, Norway spruce, common hackberry, honeylocust, pin oak.	---

Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
64002: Freeburg-----	American plum, fragrant sumac.	Blackhaw, gray dogwood.	Washington hawthorn, nannyberry, eastern redcedar.	Baldcypress, green ash, sweetgum.	Eastern white pine, pin oak.
64004: Auxvasse-----	American plum, fragrant sumac.	Blackhaw, gray dogwood.	Washington hawthorn, nannyberry, eastern redcedar.	Baldcypress, green ash, sweetgum.	Eastern white pine, pin oak.
64005: Moniteau-----	Buttonbush-----	Possumhaw-----	Nannyberry, arborvitae, eastern redcedar.	Common hackberry, baldcypress, pin oak.	Eastern cottonwood.
64006: Tanglenook-----	Buttonbush-----	Possumhaw-----	Nannyberry, arborvitae, eastern redcedar.	Common hackberry, baldcypress, pin oak.	Eastern cottonwood.
66007: Leta-----	American plum, fragrant sumac.	Blackhaw, gray dogwood.	Washington hawthorn, nannyberry, eastern redcedar.	Baldcypress, green ash, sweetgum.	Eastern white pine, pin oak.
66014: Haymond-----	Fragrant sumac, American plum.	Blackhaw, gray dogwood.	Nannyberry, Washington hawthorn, eastern redcedar.	Sweetgum, green ash, white fir.	Pin oak, eastern white pine.
66015, 66016: Blake-----	American plum, blackhaw.	Possumhaw-----	Washington hawthorn, arborvitae, nannyberry, white spruce, eastern redcedar.	Bur oak, common hackberry, green ash.	---
66017: Cedargap-----	American plum, blackhaw.	Possumhaw-----	Washington hawthorn, arborvitae, nannyberry, white spruce, eastern redcedar.	Bur oak, common hackberry, green ash.	---
Dameron-----	American plum, blackhaw.	Possumhaw-----	Washington hawthorn, arborvitae, nannyberry, white spruce, eastern redcedar.	Bur oak, common hackberry, green ash.	---

Windbreaks and Environmental Plantings--Continued

Map symbol and soil name	Trees having predicted 20-year average height, in feet, of--				
	<8	8-15	16-25	26-35	>35
66018: Darwin-----	Buttonbush-----	Possumhaw-----	Nannyberry, arborvitae, eastern redcedar.	Common hackberry, baldcypress, pin oak.	Eastern cottonwood.
66019, 66020: Haynie-----	American plum-----	American holly, common chokecherry.	Washington hawthorn, nannyberry, eastern redcedar.	Bur oak, white fir, white spruce.	Green ash, eastern cottonwood.
66021: Perche-----	Fragrant sumac-----	Silky dogwood, American plum, gray dogwood.	Washington hawthorn, nannyberry.	Sweetgum, green ash, white fir, Norway spruce.	Eastern white pine, pin oak.
66022: Sandover-----	Fragrant sumac-----	Silky dogwood, American plum, gray dogwood.	Washington hawthorn, nannyberry.	Sweetgum, green ash, white fir, Norway spruce.	Eastern white pine, pin oak.
66023: Sarpy-----	American plum, common lilac, fragrant sumac, gray dogwood.	Washington hawthorn	Blackjack oak, persimmon, eastern redcedar, jack pine.	Eastern cottonwood	---
66024: Wilbur-----	Fragrant sumac, American plum.	Blackhaw, gray dogwood.	Nannyberry, Washington hawthorn, eastern redcedar.	Sweetgum, green ash, white fir.	Pin oak, eastern white pine.
66025: Jemerson-----	Silky dogwood-----	American cranberrybush.	Washington hawthorn, blue spruce, white fir.	Austrian pine, Norway spruce, eastern white pine.	Pin oak.